



# MARSHALL STAR

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Jan. 22, 2004

## President Bush offers new vision for NASA

*U.S. to gain 'new foothold' in space exploration*

*NASA Headquarters release*

President Bush has unveiled a new vision for space exploration, calling on NASA to "gain a new foothold on the moon and to prepare for new journeys to the worlds beyond our own."

In a speech at NASA Headquarters in Washington, D.C., the President said that the "new course for America's space program" would give NASA a new focus and clear objectives for the future.

"We do not know where this journey will end," Bush said, "yet we know this: Human beings are headed into the cosmos."

*See Vision on page 2*



President George W. Bush announces his new vision for space exploration during a visit to NASA Headquarters last week as NASA Administrator Sean O'Keefe looks on.

Photo by Bill Ingalls, NASA

**For complete transcripts of President Bush's speech and NASA Administrator Sean O'Keefe's press conference last week, go to [http://www.nasa.gov/missions/solarsystem/explore\\_main.html](http://www.nasa.gov/missions/solarsystem/explore_main.html)**



Photo by David Higginbotham, Marshall Center

### King, Readdy discuss 'the next steps'

Marshall Center Director David King, left, and NASA Associate Administrator for Space Flight Bill Readdy briefed Center team members last Friday on "the next steps" to fulfill NASA's roles for President Bush's new vision for space exploration. Go to "Inside Marshall" to view NASA's "Guiding Principles for Exploration" and "Key Elements of New Space Policy" that King and Readdy presented during the meeting.

## NASA announces new Headquarters management alignment

*NASA Headquarters release*

In a move designed to align the Agency with the new exploration agenda outlined by President George W. Bush, NASA Deputy Administrator Frederick D. Gregory has announced a comprehensive restructuring of the offices within Headquarters in Washington.

The alignment impacts NASA management, the strategic Enterprises, and the Agency's functional offices. The new alignment goes into effect immediately and reflects the new vision and the results of a comprehensive review of Headquarters operations, which first began when Gregory became deputy administrator in 2002.

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## Vision

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The President's plan for steady human and robotic exploration is based on a series of goals.

First, he said, America will "finish what it started," completing the International Space Station by 2010. Research on the Station will be focused on studying the long-term effects of space travel on humans, preparing for the longer journeys of the future. After the Station is complete, the Space Shuttle would be retired, after nearly 30 years of duty.

Second, the United States will begin developing a new manned exploration vehicle, called the Crew Exploration Vehicle (CEV). The first craft to explore beyond Earth orbit since the Apollo days, the spacecraft would be developed and tested by 2008, and conduct its first

manned mission no later than 2014. Though its main purpose would be to leave Earth orbit, the vehicle would also ferry astronauts to and from the International Space Station after the Shuttle is retired.

"Our third goal," Bush said, "is to return to the Moon by 2020, as the launching point for missions beyond." He proposed sending robotic probes to the lunar surface by 2008, with a human mission as early as 2015, "with the goal of living and working there for increasingly extended periods of time."

Bush said lunar exploration could lead to new technologies or the harvesting of raw materials that might be turned into rocket fuel or breathable air.

"With the experience and knowledge gained on the moon," Bush said, "we will then be ready to take the next steps of

space exploration: human missions to Mars and to worlds beyond."

The proposed funding for the new exploration initiative will total \$12 billion over the next five years, with much of it coming from reallocation of \$11 billion within NASA's current five-year budget. The President called on Congress to increase the Agency's budget by roughly \$1 billion spread over the next five years.

The President also announced the formation of a commission, headed by former Secretary of the Air Force Pete Aldrich, to advise him on the implementation of the new vision.

Bush closed by acknowledging the sacrifices of fallen astronauts and looking to the future. "We choose to explore space because doing so improves our lives and lifts our national spirit," he said. "So let us continue the journey."

## Marshall Center to test One NASA 'smart card'

### *Pilot program to begin in May*

*NASA Headquarters release*

The U.S. General Services Administration (GSA) recently awarded a \$93 million task order to Maximus, Inc. of Reston, Va., to assist NASA in developing a state-of-the-art smart card for Agency employees and contractors to access facilities and information systems.

NASA is spearheading this government pilot program, which has been in the planning stages for two years with the National Institute of Standards and Technology and a working group of the federal government's Interagency Advisory Board. GSA awarded the task order on Jan. 8 through its Smart Access Common ID Contract managed by the Federal Technology Service's (FTS) Center for Smart Card Solutions.

The One NASA smart card will enhance physical security for NASA facilities by authenticating an individual's identity and provide a higher level of identity assurance for the Agency's information technology systems.

"NASA plans to run a small field trial in May at its Marshall Space Flight Center in Huntsville, Ala. If that is successful, the trial will be expanded to 2,000 employees," said NASA's David Saleeba, assistant administrator for Security Management and Safeguards. "If the field trials are successful, and we receive the approval of the Office of Management and Budget, we plan to deploy over 100,000 smart cards before the end of the 2005 fiscal year," he said.

"We look forward to working with NASA on this smart card deployment," said FTS Commissioner Sandra Bates.

With the One NASA smart card, employees and contractors need only to swipe it across a reader to access a NASA center or facility. Similarly, using the same card to access their personal computers will increase computer security. Card holders need only to insert their card into a desktop reader at their workstations.

Federal Technology Service's Center for Smart Card Solutions will handle card management, enrollment and logical and physical access capabilities.

## Spelman College president to speak at Black History Month event

Dr. Beverly Daniel Tatum, president of Spelman College in Atlanta, will speak at the Marshall Center's Black History Month celebration Feb. 26.

The event will be from 10 a.m.-noon in Morris Auditorium. This year's theme is "A Legacy of Learning: Brown vs. Board of

Education 50th Anniversary."

The Oakwood College Aeolians will sing and a "Taste of Soul Food" will be held in conjunction with the event.

All Marshall team members will receive a booklet, "101 Little Known Black History Facts" during the month.

# After more than five decades, Alex McCool says goodbye

by Mike Wright

It took over a half century but Alex McCool saw it all — the Redstone rockets, Jupiter, Saturn, Skylab, Space Shuttle, International Space Station and a lot more.

McCool was honored with a retirement reception last week marking the completion of his more than 55 years of government service. McCool began his professional career in 1949 with the Corps of Engineers in Mississippi. He came to Huntsville in 1954 to join the rocket research and development team at Redstone Arsenal.

When word spread in the late 1950s that many Army employees in Huntsville might have the opportunity to join NASA, McCool made his decision.

“That looked like where Wernher von Braun was going, and we had all been working very closely with him,” McCool said.

In 1960, McCool transferred to NASA when the Development Operations Division of the Army Ballistic Missile Agency became the nucleus for establishing the Marshall Center. In 1992, after years of engineering and management service to Marshall, he was appointed manager of the Space Shuttle Projects Office at the Marshall Center.

McCool started his career in space and rockets by analyzing



Alex McCool and his wife, Genelle, enjoy the festivities at his retirement party last week at the Marshall Center. McCool has more than 55 years in government service, mostly at NASA.



Six current and former astronauts attended Alex McCool's retirement reception. From left, are Nancy Currie, Jim Halsell, McCool, McCool's wife Genelle, Tony Antonelli, NASA Associate Administrator for Space Flight Bill Readdy, Marshall's Safety and Mission Assurance Office Director Dr. Jan Davis and John Casper.

rocket propulsion systems. “We didn't have all the analytical tools we have today. You had to know the math,” he said.

McCool's career included serving as chief of the Astronautics Laboratory Projects Office; acting director of the Astronautics

Laboratory; director of the Structures and Propulsion Laboratory; and director of Marshall's Safety and Mission Assurance Office.

McCool said he was honored to work closely with von Braun, the first director of the Marshall Center. “I remember in the early years when von Braun walked in a room that everybody would stand up. Everybody called him ‘professor.’ That was a higher title than ‘doctor.’”

McCool was a direct participant in building the Saturn V moon rocket. “It was hard work and sweat,” he said.

As a propulsion expert, McCool helped solve problems like making sure propellants flowed uniformly to a cluster of rocket engines that powered the Saturn V. “It was a plumber's nightmare,” he said. The huge Saturn F-1 engine also presented a challenge. “Solving some of the technical problems almost brought us to our knees.”

Under von Braun's leadership, McCool and other engineers solved problems dealing with super-cool cryogenic fuels, insulation, bearings, turbine blades, and combustion chambers. “We blew up a lot of liquid oxygen pumps during the research and development phase,” he said.

McCool has witnessed both the glory days related to America's space and missile program and the work the Marshall team and others at NASA have done in response to more difficult times.

He makes it plain that his greatest satisfaction has not stemmed from working with space hardware. The most rewarding part of his career was working with people. “People are what makes it go,” McCool said.

*The writer is the Marshall Center historian.*

# Management

Continued from page 1

Retired U.S. Navy Rear Adm. Craig E. Steidle is the new associate administrator for the Office of Exploration Systems. Since retiring from the Navy in March 2000, he has been an independent aerospace consultant. He was chief aerospace engineer and vice commander of the Naval Air Systems Command, which develops, acquires and supports naval aeronautical systems, when he retired.

The Office of Exploration Systems is established to set priorities and direct the identification, development, and validation of exploration systems and related technologies. Users and technologists will work together to enable a balancing of factors between requirements, program schedules and costs.

Steidle entered the Navy after graduating with merit from the United States Naval Academy in Annapolis, Md. He trained as an attack pilot, test pilot and test pilot instructor. Steidle commanded the Navy's F/A-18 Program, naval aviation's largest production, research and development program, as well as the largest Foreign Military Sales Program. The Secretary of Defense presented Steidle with the Navy's Outstanding Program Manager Award. While director of the Joint Strike Fighter Program, the program was awarded the David Packard Excellence in Acquisition Award.

Steidle earned master's degrees in systems management and aerospace engineering. He is a member of the Society of Experimental Test Pilots and is a Fellow of the Royal Aeronautical Society.

Dr. J. Victor Lebacqz is the new associate administrator for the Office of Aeronautics, which was previously known as the Office of Aerospace Technology. He served as acting associate administrator of the Office of Aerospace Technology since July 2003. He was appointed deputy associate administrator in December 2002.

The new Office of Aeronautics was created to reflect NASA's commitment to aviation research and aeronautics technologies for

the nation's civil and defense interests.

"This alignment gives us the ability to specifically focus on our aeronautics and exploration systems," Gregory said. "These management adjustments will give us new opportunities for more effective leadership, policy and program success."

The changes are consistent with NASA's ongoing responses to the management and cultural issues addressed by the Columbia Accident Investigation Board.

"We live in a different world than we did just a few years ago, and our management structure should reflect the priorities and objectives of our commitments," Gregory said.

The Office of the NASA Administrator will be streamlined to allow for more independent leadership in areas vital to the execution of NASA's vision and mission. Among the changes, four new independent offices will be created.

The new offices include:

- The Office of Chief Engineer is established to ensure agency development efforts and mission operations are planned and conducted using sound engineering
- The Office of Health and Medical Systems is established to ensure the well being of the NASA workforce and to provide independent oversight authority for healthcare, related research and information
- The Office of the Chief Information Officer is established to manage the agency's Information Technology (IT) investments, lead the development of an IT strategic plan, and create a roadmap to guide the agency's IT programs and policies
- The Office of Institutional and Corporate Management is established to lead the oversight of NASA's management systems, institutional, and corporate activities

Leadership for the new offices, as well as staffing requirements and resource allocations, will be addressed as the new alignment is implemented this calendar year.

## Use of the metric system of measurement in NASA programs and projects

from the MSFC Directives Control Board

**M**SFC Directive MPG 8010.1, "Metric Usage Plan," was cancelled on Dec. 22, 2003, because it duplicated existing documented requirements. Please note that cancel-

lation of MPG 8010.1 does not eliminate the Marshall Center's requirement to comply with NPD 8010.2, "Use of the Metric System of Measurement in NASA Programs," and other approved policy, procedures, and procedural requirements regarding use of the metric system of measurement.

## Special thank you

I would like to thank all the Marshall Center family for its support and love during my illness. I would also like to thank you for the generous donations of leave. I have been reminded of how truly honored and blessed I am to be working with such wonderful people and the true meaning of being one "MSFC family."

— Rita Brazier/SD02

## Job Announcements

**MS04S0060**, Deputy Manager, Space Shuttle Propulsion Office. ES-0801-01, 06. This is a career appointment to a position in the NASA Senior Executive Service. Closes Jan. 30. Contact: Diedra Williams at 544-5721.

**MS04N0061**, Program Analyst. GS-0343-12, Space Shuttle Propulsion Office, External Tank Project. Closes Jan. 28. Contact: Edwina Bressette at 544-5118.

# Announcements

## U.S. Sen. Richard Shelby to speak at Feb. 17 chamber event

U.S. Sen. Richard Shelby will speak at the 68th annual Membership Meeting of the Chamber of Commerce/Huntsville-Madison County. The event is from 11:30 a.m.-1 p.m. Feb. 17 at the Von Braun Center. Tickets are \$38 and are available from Rosa Kilpatrick in the Government and Community Relations Office. Reservations are due by Feb. 11.

## National Engineers Week Award Banquet is Feb. 26

The annual National Engineers Week Award Banquet will be at 6 p.m. Feb. 26 in the North Hall of the Von Braun Center in Huntsville. Tickets are \$25 per person for advance reservations and \$38 per person for reservations made after Feb. 18. For more information, see "Inside Marshall."

## NASA, Marshall Center property disposal sales now Internet-based

Live auctions for NASA and Marshall Center property disposal sales now are conducted by Internet only. Go to <http://gsaauctions.gov/gsaauctions/> and search by "State of Alabama" to find items for sale located at Marshall and other federal agencies in the state. For more information or assistance, call 544-1774.

## Classes open for Marshall team

Two upcoming classes are open to Marshall team members: Making Meetings Work on Feb. 9-13, and Effective Briefings on March 8-12. All classes are from 8:30 a.m.-2:30 p.m. in Bldg. 4200, Room G-13C. Call 544-7552 for more information or see "Inside Marshall."

## Marshall Safety Culture Training mandatory during 2004

All Marshall civil service and contractor employees who have not had the previous Dupont Safety Training are required to complete Marshall Safety Culture Training during 2004. To register,

go to the Safety, Health and Environmental home page on "Inside Marshall." For more information, call Georgann Crump at 544-6525.

## MARS Ballroom Dance Club Valentine Dinner will be Feb. 6

The MARS Ballroom Dance Club Valentine Dinner will be from 6:30-11 p.m. Feb. 6 in the East Hall of the Von Braun Center. Attire is semi-formal. The "Little Big Band" will provide music. Tickets cost \$20 for members and \$25 for guests and are on sale until Feb. 3. Call Jerry Maxwell at 544-1954 or Pat Sage at 544-5427 for information.

## New service speeds loan applications for NASA workers

NASA has a new automated employment and income verification service for civil service employees applying for loans. "The Work Number" service can be used 24 hours a day from almost any location when employees seeking loans need to verify employment and income status. For details, see "Inside Marshall."

## Federally Employed Women chapter membership open

Membership in the North Alabama Chapter of Federally Employed Women is open to any federal employee. Chapter membership is comprised of employees from the U.S. Army Missile and Space Intelligence Center, Office of Personnel Management, and the Marshall Center. The organization's purpose is to end gender discrimination in government employment. The chapter meets monthly. For more information, call Shirley Burke-Mitchell at 895-1292.

## Marshall training registration going online

The Marshall Center's training registration is being upgraded to the NASA Online Registration System (NORS). It will include a "Single Sign-On" page, which eliminates the use of Social Security numbers and allows employees to set up one account and

password to access both the NORS and SOLAR training sites. For more information, see "Inside Marshall."

## 'Take Our Children to Work Day' meeting set Tuesday

Marshall team members willing to serve on the "Take Our Children to Work Day" committee should come to planning meeting from 10-11 a.m. Tuesday, Bldg. 4200, Room 715. This year's event will be April 22. For details, call Billie Swinford at 544-0087.

## SHARP mentors needed for 2004 summer session

The Marshall Center's Education Programs Department is seeking volunteers to work with students during the 2004 session of the NASA Summer High School Apprenticeship Program. The program offers high school students an opportunity to participate in an eight-week science and engineering apprenticeship. Marshall volunteers, including researchers, scientists and other engineering professionals, serve as mentors to the students. For more information, call Jennifer Simmons at 961-7544.

## New option on Marshall phone '4-HELP' voice menu added

The Marshall Center "4-Help" telephone voice menu has been changed. In addition to calling for taxi service, Option 3 will connect callers to the Center Operations and Logistics work order team. Option 3 will be announced as "Press 3 for Logistics and Environmental Services." After pressing Option 3, a second set of options will be announced -- "Press 1 for new service orders, press 2 for status of open service orders, press 3 for Marshall taxi." For more information, see "Inside Marshall," call Dawn Stanley at 544-1835, or Ron Burns at 544-4124.

## Shuttle Buddies to meet Monday

The Shuttle Buddies will meet at 8:30 a.m. Monday at Mullins Restaurant on Andrew Jackson Way in Huntsville. For more information, call Deemer Self at 881-7757.

# Classified Ads

## Miscellaneous

- ★ AKC registered Brittany puppies, six weeks old, 1/3/04, one female, two males, \$150. 256-796-6934
- ★ Electric scooter w/seat, headlight and battery charger, blue, \$125. 828-0756
- ★ 1977 Avion travel trailer, 27', for hunting, camping or lake lot, \$4,500. 931-427-2059
- ★ Hot tub SPA, Tiger River Begal model, three-years old, cover, steps, & chemicals, \$1,995. 864-8183
- ★ 2001 mobile home, 16x80, 3BR, 2B, many extras, must be moved, \$19,000. 509-9545
- ★ ATAPI internal zip 100 drive, \$20; internal floppy drive, \$5. both work. 765-532-4218
- ★ 1989 Coachman Catalina camper, 34', new flooring & appliances, \$6,500. 256-582-8429
- ★ Queen waterbed w/semi-waveless mattress, mirrored headboard, new rails, & 12-drawer storage underneath. 880-3737
- ★ Over-the-Range Whirlpool microwave, black w/mounting hardware, six years old, \$90. 880-6146
- ★ Troy-built chipper/shredder, 5HP, \$150. 256-259-1834
- ★ Four Fittipaldi Force alloy wheels, 17x8, 5x115 lug pattern, Nitto NT555, 255-45-17ZR tires, \$1,200. 721-3945
- ★ Walnut-finished dresser w/mirror, matching headboard, frame, for full-size bed, solid wood, \$100. 828-5326
- ★ Dog houses, fiberglass, large & medium; storm door, right-hand, 36" wide, bronze color. 881-6040
- ★ Cherry oval coffee table, Queen Anne legs, \$100; cherry entertainment center, \$300. 519-9326
- ★ Myles Keller compound bow with

- many accessories, \$90. 325-6000
- ★ Overstuffed child's giraffe rocker, brand new, \$25. 533-0777
- ★ New weight bench, weights, bar, \$30; Color TV, 19", \$25. 885-0729
- ★ Dresser w/mirror, 3-drawer, matching 2-drawer nightstand, \$75; queen mattress box frame, metal stand, \$50. 852-5126
- ★ Black metal desk w swivel chair, \$75. 883-5168
- ★ PDA, Palm m500, SD/multi-media slot, high-contrast display, Desktop Software, HotSync cradle, new, \$90. 683-7683
- ★ New Dewalt 10" table saw, Model 744S, bench-top w/stand, carbide blade, miter gauge, \$475. 883-1788
- ★ Traditional couch, 96", cream/mauve stripe, \$200; two coordinated chairs, \$75 each. 881-4105
- ★ Mobile home, 16'x80', all appliances, 3BR, 2 full baths, \$11,500. 723-4777
- ★ Pre-war Marx tinplate electric train w/ box, transformer, etc. Original working condition. \$200. 256-306-0700 Decatur

## Vehicles

- ★ 2000 Mazda 626, 4-door, 41K miles, silver w/gray interior, ps/pb/pb/pl, am/fm/CD cassette, a/c, \$9,950. 256-230-0806
- ★ 2001 Dodge Dakota, ext. cab, V6/auto, silver w/gray interior, 18K miles, factory warranty, \$11,500. 256-753-2928
- ★ 1994 Mustang GT convertible, 5.0L engine, 5-speed, one-owner, 123K miles, \$6,995. 461-6337
- ★ 2003 Silverado LS, extended cab, 4-door, 5.3L, towing package, extras, 5.7K miles, \$23,750. 256-931-2868
- ★ 1992 Ford Club wagon, 250K miles, one-owner, \$2,500. 256-259-1834
- ★ 1997 Chrysler Town & Country van, 95K miles, silver-beige, \$6,800. 881-7000
- ★ 1992 Saab 900, 5-speed, air, stereo,

- 119K miles, \$2,000. 652-6788
- ★ 1994 Pontiac Transport 7-passenger van, power sliding door, \$3,950. 533-9896
- ★ 2000 Ford Expedition, Eddie Bauer, 97K miles, white w/tan leather, loaded, \$14,200. 256-650-0812
- ★ 1992 Acura Legend, 4-door, 163K miles, red w/gray interior, ps/pb/pl, am/fm cassette, a/c, \$2,000. 256-230-0503
- ★ 1996 Saturn SL, 5-speed, 4-door, sunroof, 90K miles, \$3,500. 882-6129 lv. msg.
- ★ 1994 Nissan Quest, \$3,000; 1999 Ford Expedition, Eddie Bauer, 4x4, \$17,000. 828-6287
- ★ 1992 GMC Conversion van, all maintenance records, front & rear A/C and heat, \$6,000. 931-363-7764
- ★ 1976 Corvette, red, 350, 4-speed, \$6,000. 679-0694
- ★ 2003 Silverado 2500HD, red, towing package, goose neck hitch, electric brakes, 13.5K miles, \$25,500. 233-7331

## Wanted

- ★ Small- to medium-size metal free-weights, bars, and collars set. 830-8934
- ★ Twin mattress sets in very good condition. 784-5299
- ★ To talk with anyone who has Windows 98-SE Systems Recovery CDs for HP PC. 534-4859

## Free

- ★ To good home, 1-year old Calico cat, gentle, all shots. 883-9741
- ★ Two loving, 7-year old female cats, spayed and shots, black, gray tabby, moving. 256-468-7231
- ★ Mixed Australian Shepherd puppies, borne Thanksgiving week 2003. 256-881-0438

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